

Title (en)

CASE FOR BATTERIES AND METHOD FOR PRODUCING SAME

Title (de)

GEHÄUSE FÜR BATTERIEN UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

BOÎTIER POUR BATTERIES ET PROCÉDÉ POUR LE PRODUIRE

Publication

EP 3982436 A4 20220727 (EN)

Application

EP 20821881 A 20200610

Priority

- JP 2019107770 A 20190610
- JP 2020022919 W 20200610

Abstract (en)

[origin: EP3982436A1] A battery case and method of production of the same realizing smaller size, higher mountability, longer service life, and lower cost than in the past, that is, a battery case comprising a container body and a container cover, in which battery case, one or both of the container body and the container cover are made from a laminated steel sheet comprised of a plated steel sheet on which a film having a polyolefin-based resin as a main constituent is laminated, a joined part of the container body and the container cover has a welded part of the plated steel sheet, a melt bonded part of the film, and a gap part between the welded part and the melt bonded part, where a length of gap part/thickness of plated steel sheet ≤ 10.0 and a length of gap part/length of joined part < 0.50 , and at least part of the inside surface of the battery case is covered by the film, and a method of production of the same.

IPC 8 full level

H01M 50/103 (2021.01); **H01M 50/124** (2021.01); **H01M 50/169** (2021.01); **H01M 50/358** (2021.01)

CPC (source: CN EP KR US)

H01M 50/103 (2021.01 - EP US); **H01M 50/119** (2021.01 - EP KR); **H01M 50/124** (2021.01 - EP KR US); **H01M 50/1243** (2021.01 - EP); **H01M 50/133** (2021.01 - EP KR); **H01M 50/148** (2021.01 - CN); **H01M 50/15** (2021.01 - US); **H01M 50/159** (2021.01 - CN EP KR); **H01M 50/164** (2021.01 - EP KR US); **H01M 50/169** (2021.01 - EP KR US); **H01M 50/20** (2021.01 - CN); **H01M 50/358** (2021.01 - EP); **H01M 2220/20** (2013.01 - US); **Y02E 60/10** (2013.01 - EP)

Citation (search report)

- [X] JP 2013184290 A 20130919 - NIPPON STEEL & SUMIKIN MAT CO
- [X] EP 2824728 A1 20150114 - NIPPON STEEL & SUMIKIN MAT CO [JP], et al
- [A] JP 2000223090 A 20000811 - MATSUSHITA ELECTRIC IND CO LTD
- [A] US 2012214051 A1 20120823 - TSUKUDA YOSHIHIRO [JP], et al
- See also references of WO 2020250950A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3982436 A1 20220413; **EP 3982436 A4 20220727**; CN 113950769 A 20220118; CN 113950769 B 20240329; JP 7215573 B2 20230131; JP WO2020250950 A1 20201217; KR 20210148281 A 20211207; US 2022216548 A1 20220707; WO 2020250950 A1 20201217

DOCDB simple family (application)

EP 20821881 A 20200610; CN 202080041958 A 20200610; JP 2020022919 W 20200610; JP 2021526121 A 20200610; KR 20217035754 A 20200610; US 202017608418 A 20200610